H-LIGHT FELLICE BURGET MELANING LIVE SILVEN

Stanley Consultants INC.				Job No. Subject	Page NoS. WWTP Expansion
Computed by	J.M. Brady	Date	21-Jul-08		Cost Estimate
Checked by		Date			
Approved by		Date		Sheet No	o, of

Objective: Develop Project Cost Estimate to Expand S. WWTP to accommodate flows and loads presently treated at N. WWTP

This cost estimate has been developed in part based on escalation from 2000 S. WWTP Improvements

This cost estimate is based the following:

New Influent Pump Station duplicate to existing with screens and pumps to allow incremental expansion of influent flows up to double present capacity

Two new vortex grit units with building

Two new primary clarifiers

Two new secondary clarifiers incl RAS pumping

New chlorine contact chamber

New chemical building

No new modifications to sludge thickening, digestion, dewatering

Aeration expansion requirements require additional evaluation and depend on what effects P&G load reduction has had. Minimum estimated expansion is adding 5th Aeration train to the current four without any additional blower capacity changes More robust expansion is to provide two new aeration trains in separate battery with new blower building

Item	Number	Unit	\$/Unit	Extended
Influent Pump Station		1 LS	\$7,000,000	\$7,000,000
Two Vortex Grit Units	;	2 EA	\$500,000	\$1,000,000
Two Primary Clarifiers	:	2 LS	\$900,000	\$1,800,000
Two Secondary Clarifiers	:	2 LS	\$2,000,000	\$4,000,000
New Chlorine Contact Chamber		1 LS	\$600,000	\$600,000
New Chemical Building	400) SF	\$250	\$1,000,000
Subtotal				\$15,400,000
Misc Structures				\$500,000
Misc Site Electrical				\$500,000
Misc Controls				\$1,400,000
Misc Site Piping				\$1,500,000
Misc Site				\$1,200,000
New Outfall Pipe	400	0 LF	\$400	\$1,600,000
Base Subtotal				\$22,100,000
5th Aeration Basin		1 LS	\$1,600,000	\$1,600,000
5th Aeration Basin Alternative (Ba	ise Subtota	l +5th	Aeration Basin)	\$23,700,000
Undeveloped Details (20%)				\$4,740,000
Contingency (20%)				\$4,740,000
Subtotal				\$33,180,000
Engineering, Legal, Administrative	\$6,636,000			
Estimated Project Cost				\$39,816,000
Probable Project Cost				\$40,000,000
Two Aeration Basins		1 LS	\$3,200,000	\$3,200,000
Blower Building		1 LS	\$2,000,000	\$2,000,000
Two Aeration Basins Alternative				\$27,300,000
Undeveloped Details (20%)				\$5,460,000
Contingency (20%)				\$5,460,000
Subtotal				\$38,220,000
Engineering, Legal, Administrative	e (20%)			\$7,644,000
Estimated Project Cost				\$45,864,000
Probable Project Cost				\$46,000,000

				Job No.		Page No.	
Stanley Consultants INC			Subject	North Wastewater Treatment Plant			
Computed by	K. Johnson L.G. Jensen	Date	18-Jul-08		Demolition		
Checked by		Date	18-Jul-08	0) (1)		_f	
Approved by		Date		Sheet No.		of	
				Qua	ntity	Labor	& Material
	Item Description			# Units	Unit Measure	\$/Unit	Total
	Building Demolition - Include	des Hauling		40,400	sf	\$ 10.00 \$ 250.00	\$ 404,0 \$ 3,859,0
	Tank Concrete Demolition			15,436	су		\$ 3,659,0
	Pavement Demolition			10,056	sy		\$ 100,5
	Parking Lot Demolition			5,556	sy		
	Hauling Concrete/Pavemer	nt		18,038	су	\$ 20.00	
	Pipe Demolition			26,000	lf 	\$ 20.00	\$ 520,0
	Fence Demolition			3,500	lf	\$ 3.00	\$ 10,5
	Fill			82,510	су	\$ 40.00	
	Grading			1,120,000	sf	\$ 0.15	
	Seeding			1,120,000	sf	\$ 0.05	\$ 56,0
					Contract Con	tingency 20%	\$ 1,266,0 \$ 13,926,0 \$ 2,785,2 \$ \$ 16,711,2